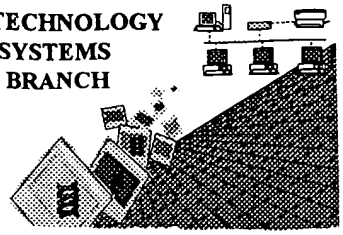
BIOTECHNOLOGY SYSTEMS BRANCH



1644
P#18

RECEIVED
SEP 3 0 2002
TECH CENTER 1600/2900

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/461,684B
Source: 1600
Date Processed by STIC: 9/19/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm**>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION

SERIAL NUMBER: 09/461,648

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

16

1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/461,684B

DATE: 09/18/2002
TIME: 15:16:47

Input Set : A:\57636-8020.US00-seqlist.txt
Output Set: N:\CRF4\09182002\I461684B.raw

Does Not Comply
Corrected Diskette Needed

pp 1-4

<110> APPLICANT: Laus, Reiner
Hakim, Itzhak
Vidovic, Damir
<120> TITLE OF INVENTION: Compositions and Methods for Enhancement of Major Histocompatibility Complex Class I Restricted Antigen Presentation
<130> FILE REFERENCE: 7636-0020.30
<140> CURRENT APPLICATION NUMBER: US 09/461,684B
<141> CURRENT FILING DATE: 1999-12-14
<150> PRIOR APPLICATION NUMBER: US 60/112,324
<151> PRIOR FILING DATE: 1998-12-14
<160> NUMBER OF SEQ ID NOS: 10
<170> SOFTWARE: FastSEQ for Windows Version 4.0
<210> SEQ ID NO: 1
<211> LENGTH: 21
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptide

(global error)

insufficient explanation - give source of genetic material (see item 11 on Error Summary Sheet)

<400> SEQUENCE: 1
Cys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
1 5 10 15
Lys Lys Lys Lys Lys
20
<210> SEQ ID NO: 2
<211> LENGTH: 25
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptide
<400> SEQUENCE: 2
Cys Glu Ala Ala Ala Ala Ala Glu Ala Ala Ala Ala Ala Glu Ala Ala
1 5 10 15
Ala Ala Ala Glu Ala Ala Ala Ala Ala
20 25
<210> SEQ ID NO: 3
<211> LENGTH: 24
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptide
<400> SEQUENCE: 3
Cys Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu

RAW SEQUENCE LISTING DATE: 09/18/2002
PATENT APPLICATION: US/09/461,684B TIME: 15:16:47

Input Set : A:\57636-8020.US00-seqlist.txt
Output Set: N:\CRF4\09182002\I461684B.raw

```
     1               5                  10                  15
Gly Met Ile Asp Gly Trp Tyr Gly
            20
<210> SEQ ID NO: 4
<211> LENGTH: 45
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptide
<400> SEQUENCE: 4
Cys Glu Ala Ala Ala Ala Ala Glu Ala Ala Ala Ala Ala Glu Ala Ala
 1               5                  10                  15
Ala Ala Ala Glu Ala Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys Lys
            20                  25                  30
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
        35                  40                  45
<210> SEQ ID NO: 5
<211> LENGTH: 44
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptide
<400> SEQUENCE: 5
Cys Gly Leu Phe Gly Ala Ile Ala Gly Phe Ile Glu Asn Gly Trp Glu
 1               5                  10                  15
Gly Met Ile Asp Gly Trp Tyr Gly Lys Lys Lys Lys Lys Lys Lys Lys
            20                  25                  30
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
        35                  40
<210> SEQ ID NO: 6
<211> LENGTH: 21
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptide
W--> 107 <221> NAME/KEY: VARIANT
     108 <222> LOCATION: (1)...(21)
     109 <223> OTHER INFORMATION: Xaa = Arg or Lys
W--> 111 <400> 6
W--> 112 Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     113  1               5                  10                  15
W--> 114 Xaa Xaa Xaa Xaa Xaa
     115             20
<210> SEQ ID NO: 7
<211> LENGTH: 20
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: peptide
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/461,684B

DATE: 09/18/2002
TIME: 15:16:47

Input Set : A:\57636-8020.US00-seqlist.txt
Output Set: N:\CRF4\09182002\I461684B.raw

W--> 125 <221> NAME/KEY: VARIANT
126 <222> LOCATION: (1)...(20)
127 <223> OTHER INFORMATION: Xaa = Arg or Lys
W--> 129 <400> 7
W--> 130 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
131 1 5 10 15
W--> 132 Xaa Xaa Xaa Xaa
133 20
135 <210> SEQ ID NO: 8
136 <211> LENGTH: 7
137 <212> TYPE: PRT
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: peptide
W--> 143 <221> NAME/KEY: VARIANT
144 <222> LOCATION: (2)...(2)
145 <223> OTHER INFORMATION: Xaa = Glu or Asp
W--> 147 <221> VARIANT
148 <222> LOCATION: (3)...(7)
149 <223> OTHER INFORMATION: Xaa = Ala, Leu, Ile, Phe, Gly, Cys, Met or Val
W--> 151 <221> VARIANT
152 <222> LOCATION: (2)...(7)
153 <223> OTHER INFORMATION: amino acids 2 to 7 comprise a subunit that is repeated three or more times
W--> 155 <400> 8
W--> 156 Cys Xaa Xaa Xaa Xaa Xaa Xaa
157 1 5
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 6
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: peptide
W--> 167 <221> NAME/KEY: VARIANT
168 <222> LOCATION: (1)...(1)
169 <223> OTHER INFORMATION: Xaa = Glu or Asp
W--> 171 <221> VARIANT
172 <222> LOCATION: (2)...(6)
173 <223> OTHER INFORMATION: Xaa = Ala, Leu, Ile, Phe, Gly, Cys, Met or Val
W--> 175 <221> VARIANT
176 <222> LOCATION: (1)...(6)
177 <223> OTHER INFORMATION: amino acids 1 to 6 comprise a subunit that is repeated three or more times
W--> 179 <400> 9
W--> 180 Xaa Xaa Xaa Xaa Xaa Xaa
181 1 5
183 <210> SEQ ID NO: 10
184 <211> LENGTH: 8
185 <212> TYPE: PRT
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/461,684B

DATE: 09/18/2002
TIME: 15:16:47

Input Set : A:\57636-8020.US00-seqlist.txt
Output Set: N:\CRF4\09182002\I461684B.raw

189 <223> OTHER INFORMATION: peptide
191 <400> SEQUENCE: 10
192 Ser Ile Ile Asn Phe Glu Lys Leu
193 1 5

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/18/2002
PATENT APPLICATION: US/09/461,684B TIME: 15:16:48

Input Set : A:\57636-8020.US00-seqlist.txt
Output Set: N:\CRF4\09182002\I461684B.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21
Seq#:7; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20
Seq#:8; Xaa Pos. 2,3,4,5,6,7
Seq#:9; Xaa Pos. 1,2,3,4,5,6

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:8; Line(s) 153
Seq#:9; Line(s) 177